

NAME:

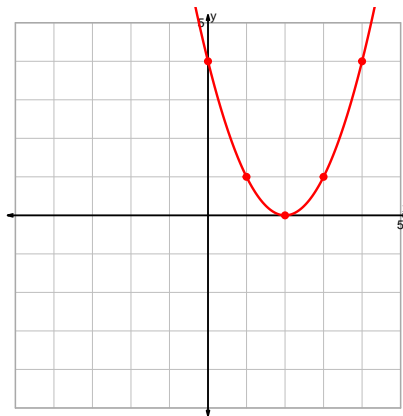
DATE:

Unit-2 Reduced Mastery Assessment (version 316)

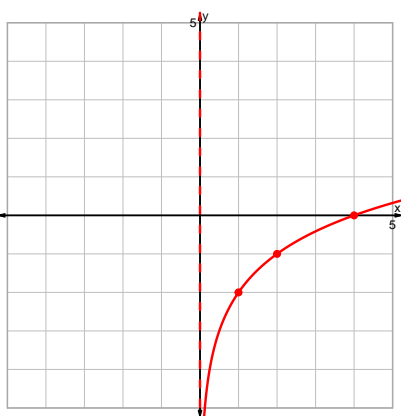
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

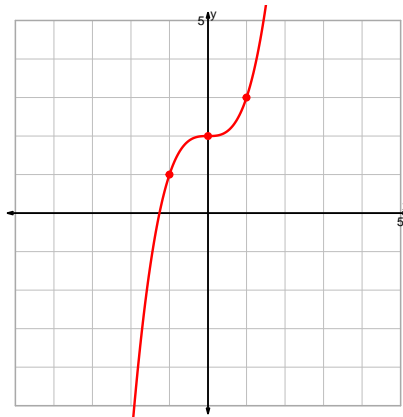
$$y = (x - 2)^2$$



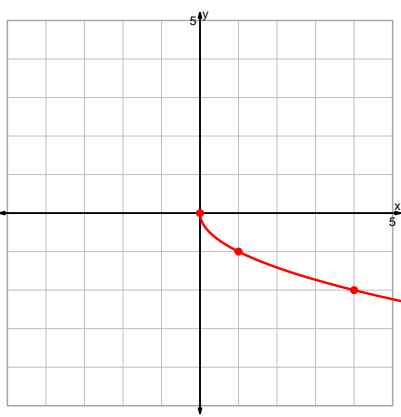
$$y = \log_2(x) - 2$$



$$y = x^3 + 2$$

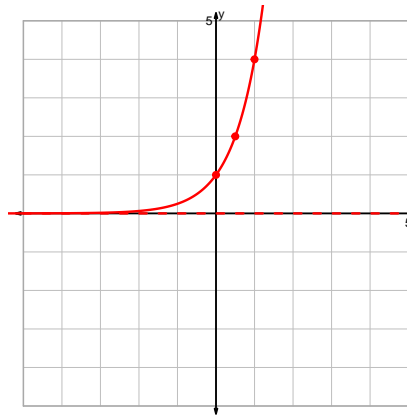


$$y = -\sqrt{x}$$

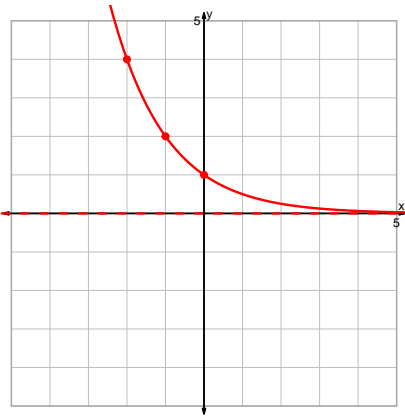


Question 2 continued...

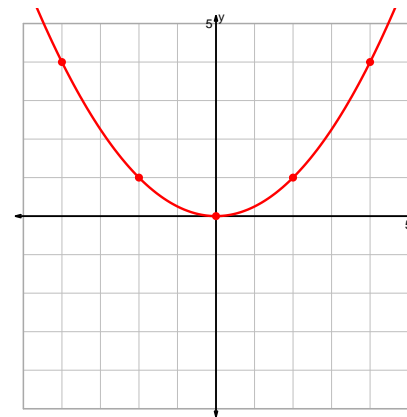
$$y = 2^{2x}$$



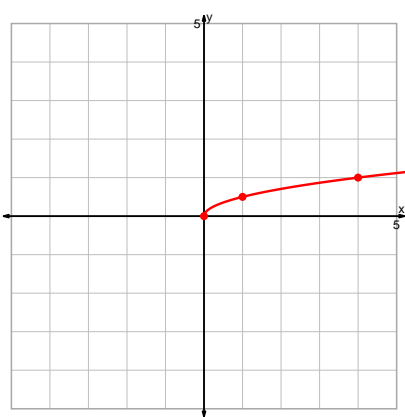
$$y = 2^{-x}$$



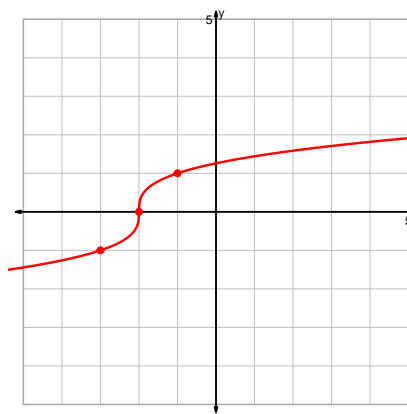
$$y = \left(\frac{x}{2}\right)^2$$



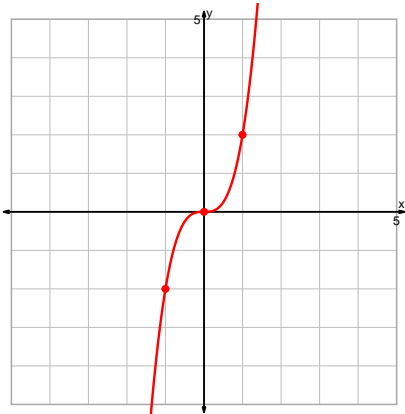
$$y = \frac{\sqrt{x}}{2}$$



$$y = \sqrt[3]{x+2}$$

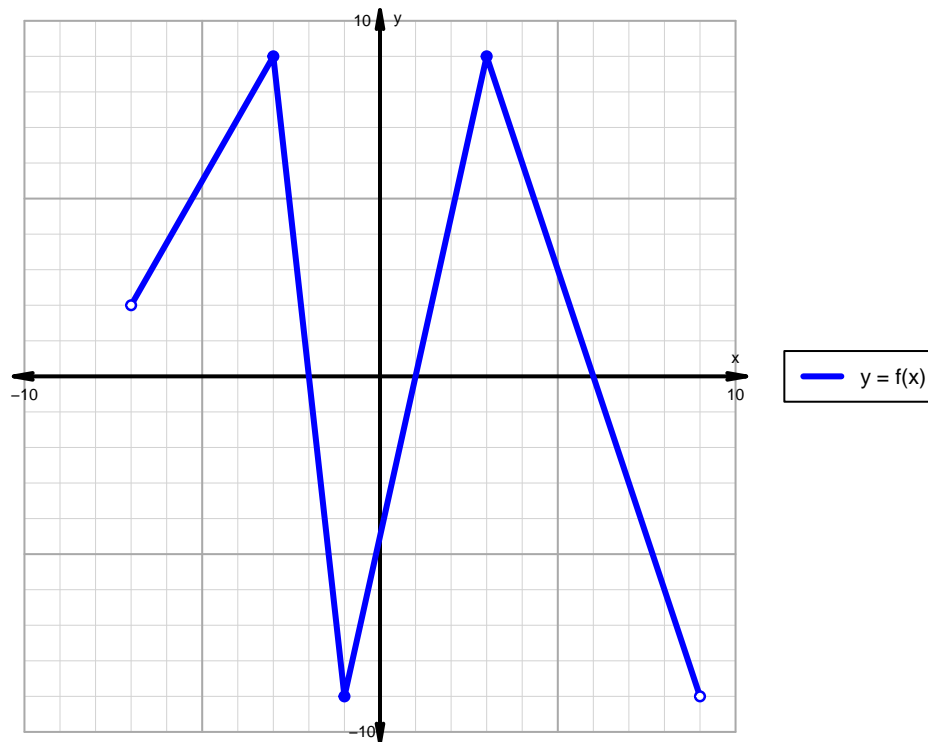


$$y = 2 \cdot x^3$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-7, -2) \cup (1, 6)$
Negative	$(-2, 1) \cup (6, 9)$
Increasing	$(-7, -3) \cup (-1, 3)$
Decreasing	$(-3, -1) \cup (3, 9)$
Domain	$(-7, 9)$
Range	$(-9, 9)$